

CLAIMS

1. A glass terminal for high-speed optical communication, said terminal comprising:

5 an eyelet member provided with an inserting hole;

an optical element mounting block fixed to said eyelet member, said optical element mounting block having such a size to cover a range where said inserting hole is arranged, said optical element mounting block
10 being provided with a coaxial hole arranged coaxially with said inserting hole and having a diameter larger than that of said signal lead;

a signal lead being inserted into said inserting hole and sealed with said eyelet member by
15 means of glass filled in said inserting hole, said signal lead being extending into said coaxial hole;

said optical element mounting block having a side surface partially cut off so that an outer peripheral surface of the signal lead in said coaxial
20 hole is partially exposed.

2. A glass terminal as set forth in claim 1, wherein said side surface of the optical element mounting block is cut off as a tapered surface, so that an exposed area of the outer peripheral surface of the signal lead
25 coaxial hole is gradually increased.

3. A glass terminal for high-speed optical communication, said terminal comprising:

a metallic eyelet member having upper and lower surfaces and having a plurality of inserting holes
30 extending substantially perpendicular to said upper and lower surfaces and spaced to each other;

an optical element mounting block having a bottom surface fixed to said upper surface of the eyelet member, said bottom surface of the optical element
35 mounting block having such a size to cover a range of the upper surface of the eyelet member where said plurality of inserting holes are arranged, said optical element

mounting block being provided with coaxial holes arranged coaxially with said inserting holes, respectively, each of said coaxial holes having a diameter larger than that of said signal lead;

5 said signal leads being sealed to said eyelet member by means of glass filled in said inserting holes, respectively, and extending into said respective coaxial hole;

10 said optical element mounting block having a side surface thereof partially cut off so that an outer peripheral surface of each of the signal leads is partially exposed.

4. A glass terminal as set forth in claim 3, wherein a side surface of the optical element mounting
15 block is cut off as a tapered surface, so that an exposed area of the outer peripheral surface of each of the signal leads in the respective coaxial hole is gradually increased.

5. An optical element comprising:
20 a glass terminal comprising:
 a metallic eyelet member having upper and lower surfaces and having a plurality of inserting holes extending substantially perpendicular to said upper and lower surfaces and spaced to each other;
25 an optical element mounting block having a bottom surface fixed to said upper surface of the eyelet member, said bottom surface of the optical element mounting block having such a size to cover a range of the upper surface of the eyelet member where said plurality
30 of inserting holes are arranged, said optical element mounting block being provided with coaxial holes arranged coaxially with said inserting holes, respectively, each of said coaxial holes having a diameter larger than that of said signal lead;

35 said signal leads being sealed with said eyelet member by means of glass filled in said inserting holes, respectively, and extended into said respective

coaxial hole;

said optical element mounting block having
a side surface thereof partially cut off so that an outer
peripheral surface of each of the signal leads is
5 partially exposed; and

a substrate mounted on a surface of said
optical element mounting block perpendicular to said
bottom surface; and

an optical element mounted on said
10 substrate so that said optical element is electrically
connected with said exposed portion of said signal leads.

6. An optical element as set forth in claim 5,
wherein said optical element mounted on said substrate is
electrically connected with said exposed portion of said
15 signal leads by means of wire-bonding.